SBRWO: 72/19-20
dt: 17-3-2020

Original/Duplicate/Triplicate

# CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR.No. 72/19-20

No.1st & Final Bill

Date.....2019

Dt. 17-3-2020

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :- 004-18-000083** -

Schedule Docket No. Head of Account : P – Code: **P0294** D.R.No.

Name of Work **:- Supplaying and Laying aerial Bunched cable and TC Services,Connected road to Allalsandra lake Bund Pathway Lights in Yelahanka Ward No 04.**

.Name of Contractor and Full Address **M/s Mamatha Electricals,**

Reference to Agreement No:EE(Ele)YZ/WO/000054/ 2018-19 Date:- 13 / 02 /2019

Certified that the measurements were taken by me on 14/1/20 and recorded of Pages to of measurement Book No. 2568/19-20 and that the work is satisfactorily executed. 25670H to 707

FOR MAMATHA ELECTRICALS

P. M. Manjunatha

**Contractor**

**Officer-in-charge of work**

Certified that the measurement were taken by me on ..14/1/20.. and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)

**Sub-Division Officer**

II Memorandum of Payment

| | | BBMP, Bangalore |
|---|---|---|
| 1) | Total value of work done or supplies made as per account within | Bill= 368028=00 |
| 2) | Deduct amount to be held in reserve being .....percent Rs..... | IT 1% 3680=00 |
| 3) | " Balance | WWC 1% 3680=00 |
| 4) | Deduct Payment: | CBFO 1% 368=00 |
| | a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of | Amount FSD 5% 18401=00 |
| | | Scost 1% 3286=00 |
| | | Ccost 1% 3286=00 |
| | | Fine = 11041=00 |
| | b) Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash. | deductions = 43,742=00 |
| 5) | Balance being unpaid value of work done held in reserve. | Chvee= 324.286=00 |
| 6) | Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments. | |
| 7) | Net amount due to or from Contractor unadjustments items. | |
| 8) | Advance to Contractor for materials brought to site (as detailed) within. | |
| 9) | Value of Government materials supplied | |
| | Total amount adjusted - | |

payment to electrical

ರೂ: 368028=00

ರೂ: 324286=00

Contractor's Signature

Received Rs.....(in words).....

ರೂ: 43,742=00

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

For MAMATHA ELECTRICALS

P. M. Manjunatha

(For use in the Office)

Witness

1.

2.

Stamp

For MAMATHA ELECTRICALS

P. M. Manjunatha

Proprietor

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

| Sl. No | | Unit |
|---|---|---|
| | **Name Of Work:-** Supplaying and Laying aerial Bunched cable and TC Services,Connected road to Allalsandra lake Bund Pathway Lights in Yelahanka Ward No 04 | |
| 1 | Filtering of oil in the transformer at the transformer center by hot process using "Stream line filter" such time the dielectric strength of the oil in the transformer conforms to ISI specification [Test certificate to be produced] | Litre |
| 2 | Supplying and Testing of OIL for Di-Electric strength (BDV) / Acidity | Per Sample |
| 3 | Supplying and Topping -up of new Transil OIL | Per Litre |
| 4 | Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32 | Nos |
| 5 | Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Single bracket 1.5 Mtr. Length | Mtrs |
| 6 | Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM | Per Mtr |
| 7 | Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR | Per Mtr |
| 8 | 2 Pin Cross Arm with pole clamp, bolt & nuts & washers for RCC Pole - MS | Nos |
| 9 | Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections | Nos |
| 10 | Suspension Clamp Assembly16 to 70 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook) | Nos |
| 11 | Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook) | Nos |
| 12 | Fixing of 2 Pin cross arm with insulator and Braces fixing | Nos |
| 13 | Erection of Suspension Clamp - 25 to 95 sqmm bare messenger | Nos |
| 14 | Installation of Insulation piercing connector for main to street lightMain : 16-95sqmm, Tap : 1.5-10sqmm(EP95) | Nos |
| 15 | Fixing of Universal Hook/Dead end clamp | Nos |
| 16 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. ( Icu = Ics) FOUR POLE 200Amps 35kA. | Nos |
| 17 | Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg | Sqcm |
| 18 | Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps | Nos |

| Previous Measurement | | Present Measurement | | | Total Upto Date | | Remarks |
|---|---|---|---|---|---|---|---|
| Qty | Cost | Qty | Rate | Amount | Qty | Cost | |
| | | 150 | 18.00 | 2700.00 | 150 | 2700.00 | |
| | | 2 | 198.00 | 396.00 | 2 | 396.00 | |
| | | 50 | 162.00 | 8100.00 | 50 | 8100.00 | |
| | | 2 | 13329.00 | 26658.00 | 2 | 26658.00 | |
| | | 2 | 1287.00 | 2574.00 | 2 | 2574.00 | |
| | | 1395 | 135.00 | 188325.00 | 1395 | 188325.00 | |
| | | 1395 | 9.00 | 12555.00 | 1395 | 12555.00 | |
| | | 39 | 162.00 | 6318.00 | 39 | 6318.00 | |
| | | 39 | 153.00 | 5967.00 | 39 | 5967.00 | |
| | | 39 | 189.00 | 7371.00 | 39 | 7371.00 | |
| | | 4 | 126.00 | 504.00 | 4 | 504.00 | |
| | | 39 | 90.00 | 3510.00 | 39 | 3510.00 | |
| | | 39 | 108.00 | 4212.00 | 39 | 4212.00 | |
| | | 39 | 54.00 | 2106.00 | 39 | 2106.00 | |
| | | 4 | 108.00 | 432.00 | 4 | 432.00 | |
| | | 3 | 14589.00 | 43767.00 | 3 | 43767.00 | |
| | | 30000 | 0.27 | 8100.00 | 30000 | 8100.00 | |
| | | 1 | 9009.00 | 9009.00 | 1 | 9009.00 | |

| | | |
|---|---|---|
| 19 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. ( Icu = Ics) THREE POLE 100Amps 25kA. | Nos |
| 20 | Supplay and erection of Single phase Thyristor based smart street light control system consisting of following aquipments<br>1. Precise turn ON & OFF of street lights on pre programmed data<br>2. 2 x 16 character LCD display unit to display date, status ON Or OFF , turn ON & OFF time,<br>3. Keypad to set/edit ON & OFF time as per the end user<br>4. Microcontroller with Real Time Clock and associated hardware<br>5. 1 No, SCR 162 amps thyristor module for load switching mounted on an extruded alluminium heat sink<br>6. Thyristor Driver Card: Driver control circuit to switch ON & OFF the Thyristor module<br>7. Firmware: Firmware to control the hardware and display the required data<br>8. Power Supply: AC to DC conversion circuit required for the electronic circuitry and driver control card<br>9. Enclosure is made out of 18 swg CRCA ms sheet of size H480xW310XD200mm with luvers for Heat dissipation IP65 weather proof metal enclosure<br>10. Wiring & other components like wiring, connectors ,insulators, Alluminium Bus bar and 2 nos of 125 amps single pole MCB for main power Supply control and Manual On & off operation & etc complete. | Nos |
| | **Total Rs** | |

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Elc)
BBMP, Bangalore

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1 | 4005.00 | 4005.00 | 1 | 4005.00 | |
| | | 1 | 31419.00 | 31419.00 | 1 | 31419.00 | |
| | | | | **368028.00** | | **368028.00** | |